



Atty. Dkt. No. 039363-0703

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Ryan Bremer et al.  
Title: CRYSTAL STRUCTURE OF  
PIM-1 KINASE  
Appl. No.: 10/664,421  
Filing Date: 09/16/2003  
Examiner:  
Art Unit:

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| <p align="center"><b>CERTIFICATE OF MAILING</b></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p align="center"><u>ANITA PATEL</u><br/>(Printed Name)</p> <p align="center"><u>[Signature]</u><br/>(Signature)</p> <p align="center"><u>MARCH 24, 2006</u><br/>(Date of Deposit)</p> |
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**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Amendment-IDS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English. The references were cited in an International Search Report from related international application No. PCT/US2003/06477. Some of the references cited in the report (5,763,198; Al-Obeidi et al. and Lipinski) were previously disclosed to the USPTO and are therefore not included on the attached SB08.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

**STATEMENT**


The undersigned hereby states in accordance with 37 CFR §1.704(d) that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

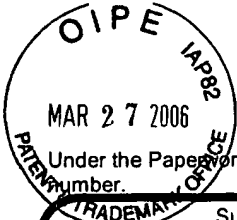
Respectfully submitted,

Date 3/24/06

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By 

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Attorney for Applicant  
Registration No. 32,327



MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

|                        |             |
|------------------------|-------------|
| Application Number     | 10/664421   |
| Filing Date            | 9/16/03     |
| First Named Inventor   | Bremer      |
| Group Art Unit         | 1656        |
| Examiner Name          | Nashed      |
| Attorney Docket Number | 039363-0703 |

**U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
|                    |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
|                    | A1                    | 5698401              |                                   | Fesik et al.                                    | 12-16-1997                                       |   |
|                    | A2                    | 5804390              |                                   | Fesik et al.                                    | 09-08-1998                                       |   |
|                    | A3                    | 6297021              |                                   | Nienaber et al.                                 | 10-02-2001                                       |   |

**U.S. PATENT APPLICATION DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | U.S. Patent Application Document |                                   | Name of Patentee or Applicant of Cited Document | Filing Date of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document |                     |                                   | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
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|                    |                       | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |  |  |   |                |
|                    | A4                    | WO                      | 99/63931            |                                   | The Salk Institute for Biological Studies        | 12-16-1999                                       |   |                |
|                    |                       |                         |                     |                                   |  |  |   |                |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>6</sup> |
|--------------------|-----------------------|--|----------------|
|                    | A5                    | Ashani and Wilson, A covalent affinity column for the purification of acetylcholinesterase. Biochem. Biophys. Acta, 276:317-322, 1972.   |                |
|                    | A6                    | Feinberg et al., Zinc-directed inhibitors for zinc proteinases. Acta Cryst., D51: 428-449, 1995.   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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|   |   | Application Number       | 10/664421 |                        |             |
|   |   | Filing Date              | 9/16/03   |                        |             |
|   |   | First Named Inventor     | Bremer    |                        |             |
|   |   | Group Art Unit           | 1656      |                        |             |
|   |   | Examiner Name            | Nashed    |                        |             |
| Sheet   | 2 | of                       | 2         | Attorney Docket Number | 039363-0703 |

| NON PATENT LITERATURE DOCUMENTS |                       |  |                |
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| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>6</sup> |
|                                 | A7                    | Fitzgerald et al., Crystallographic analysis of a complex between human immunodeficiency virus type 1 protease and acetyl-pepstatin at 2.0-A resolution. The Journal of Biological Chemistry, 265 (24): 14209-14219, 1990.                                     |                |
|                                 | A8                    | Geller et al., HIV-1 protease and its inhibitors in Theoretical and Computational Methods in Genome Research. Edited by Sahai. New York: Plenum Press, 1997, p. 237-254.   |                |
|                                 | A9                    | Kleinberg and Wanke, New approaches and technologies in drug design and discovery. Am. J. Health-Syst Pharm., 52: 1323-1336, 1995.   |                |
|                                 | A10                   | McPherson et al., The Role of X-ray crystallography in structure-based rational drug designs. Chapter 6 in Chemical Structures Approaches Ration. Drug Design. Edited by D.V. Weiner et al. Boca Raton: CRC Press, 1995, p. 161-179.                           |                |
|                                 | A11                   | Rosenberry et al., Purification of acetylcholinesterase by affinity chromatography and determination of active site stoichiometry. The Journal of Biological Chemistry, 247 (5): 1555-15565, 1972.   |                |
|                                 | A12                   | Sica et al., Affinity chromatography and the purification of estrogen receptors. The Journal of Biological Chemistry, 248 (18): 6543-6558, 1973.   |                |
|                                 | A13                   | Wuthrich, NMR-This other method for protein and nucleic acid structure determination. Acta Cryst., D51: 249-270, 1995.   |                |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
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